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Design, Languages, Management, Measurement, Performance, Theory

Keywords:

data mining, information extraction, semantic query, table understanding

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In the past few years, relevance feedback (RF) has been used as an effective solution for contentbased image retrieval (CBIR). Although effective, the RF-CBIR framework does not address the issue of feature extraction for dimension reduction and noise reduction. In this paper, we propose a novel method for extracting features for the class of images represented by the positive images provided by subjective RF. Principal Component Analysis (PCA) is used to reduce both noise contained in the original image features and dimensionality of feature spaces. The method increases the retrieval speed and reduces the memory significantly without sacrificing the retrieval accuracy.

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Primary Classification:

H. Information Systems

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H.3.3 Information Search and Retrieval

Subjects: Relevance feedback

Additional Classification:

H. Information Systems

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H.3.1 Content Analysis and Indexing

Subjects: Indexing methods

H.3.3 Information Search and Retrieval

Subjects: Retrieval models

General Terms:

Algorithms, Design, Performance

Keywords:

Bayesian estimation, content-based image retrieval (CBIR), principal component analysis (PCA), relevance feedback

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